

Dräger Flame 5000

The Dräger Flame 5000 is an explosion proof colour imaging based flame detector. Each detector operates standalone and incorporates, within a single unit, an integrated CCTV system; digital signal processing and software algorithms to process live video image and interpret the characteristics of a flame.



SIMPLE INSTALLATION & COMMISSIONING

Installation is simple! The detector is easily installed with a stainless steel mounting bracket; this can be rotated to ensure optimum positioning of the detector in relation to the potential fire source.

Detector Flexibility

The detector can be operated as a standalone unit providing live video images, it can also be integrated with a control system or fire panel to provide fault, and fire signalling. This is achieved using a 0 to 20 mA, or relay outputs. An In-built memory card allows the detector to record before and after every alarm.

Advance Optical Verification

The optical verification facility is designed to check the window for contamination and to ensure the detectors field of view is not compromised by an obstruction placed immediately in front of the detector. The surveillance aspect of the detector eliminates the need to dispatch operators to investigate alarms. This reduces the risk of injury and also improves response time.

Easily Visible Status LED

A tri-colour LED which is visible at the front of the detector provides a simple status indication to personnel in close proximity to the detector. Green indicates normal operation; yellow indicates a fault and red indicates the presence of radiation.

Field of View

The Dräger Flame 5000 can detect fires of 0.1 m² or greater, at 44 m within a 90° Horizontal Field of View. The detector's Field of View is a rectangular pyramid shape and represents a radial projection of the sensing element, therefore giving it the greatest coverage area of any flame detector currently available.

False Alarm Immunity

The Dräger Flame 5000's advanced image processing algorithms are so discriminating that false alarms are all but non-existent.

Worldwide Approvals

The Dräger Flame 5000 has the option of being Aluminium, or Stainless Steel. It can be used worldwide with the following approvals: ATEX, IECEx, FM and CFM.



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Explosion proof colour imaging based flame detector

TECHNICAL DATA

Dräger Flame 5000

| | | |
|----------------------------|-------------------------------|---|
| Type | | Colour imaging based visual flame detector |
| Field of View | | Horizontal 90° |
| Sensitivity | | 0.1 m ² gasoline fire at 44 m, (1 sq. ft fire at 144 ft) |
| Response Time | | 4 seconds, typical; configurable up to 30 seconds |
| Signal Output | Analogue | 0 to 20 mA |
| | or 2 Relays for Fault & Alarm | Ratings 125 VAC, 0.5 A; 30 VDC, 2A (optional) |
| | Standard RS 485 | |
| Supply Voltage | | 18 to 30 VDC, current consumption 6 watts (typical) |
| Ambient Conditions | Temperature | - 60 °C to + 85 °C, - 76 °F to + 185 °F |
| | Pressure | 915 to 1055 hPa, 27.9 to 31.2 inch of Hg |
| | Humidity | 0 to 99 %RH, non-condensing |
| Enclosure | | IP 66, NEMA 4X |
| Cable Entry | | M20, M25 or ¾" NPT |
| Dimensions (L x D, approx) | | 200 x 100 mm, 7.9 x 3.9 inches |
| Weight (approx) | | 2.5 kg, 5.5 lbs (2.8 kg, 6.2 lbs stainless steel) |
| Approvals | ATEX | II 2 G EEx d IIC T4 |
| | IECEx | Ex d IIC T4 |
| | FM/CFM | Class I, Division 1 Groups B, C and D Class I, Zone 1, AEx d IIC; T5 |

ORDER INFORMATION

| Dräger Flame 5000 | Order No |
|---|-----------|
| Dräger FS-5000 | 420 93 07 |
| Dräger CCTV Balanced Line to BNC Video Converter | 420 93 27 |
| Dräger Flame 5000, M20, 4-20mA, PAL video mode, Aluminium | 420 93 08 |
| Dräger Flame 5000, M20, Relay, NTSC video mode, Aluminium | 420 93 09 |
| Dräger Flame 5000, ¾ NPT, Relay, NTSC video mode, Aluminium | 420 93 10 |
| Dräger Flame 5000, ¾ NPT, 4-20mA, PAL video mode, Aluminium | 420 93 11 |
| Dräger Flame 5000, M25, 4-20mA, PAL video mode, Aluminium | 420 93 33 |
| Dräger Flame 5000, M25, Relay, NTSC video mode, Aluminium | 420 93 34 |
| Dräger Flame 5000, M20, 4-20mA, PAL video mode, Stainless Steel | 420 93 20 |
| Dräger Flame 5000, M20, Relay, NTSC video mode, Stainless Steel | 420 93 21 |
| Dräger Flame 5000, ¾ NPT, Relay, NTSC video mode, Stainless Steel | 420 93 22 |
| Dräger Flame 5000, ¾ NPT, 4-20mA, PAL video mode, Stainless Steel | 420 93 23 |
| Dräger Flame 5000, M25, 4-20mA, PAL video mode, Stainless Steel | 420 93 35 |
| Dräger Flame 5000, M25, Relay, NTSC video mode, Stainless Steel | 420 93 36 |



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.